(No Model.) 2 Sheets—Sheet 1.

L. BOUDREAU.

VELOCIPEDE SADDLE.

No. 385,403. Patented July 3, 1888.

Fig. 1

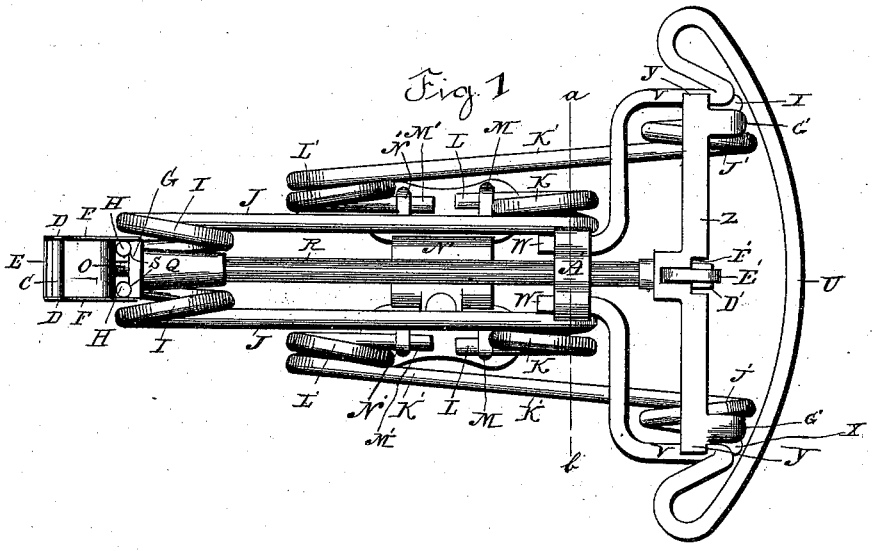
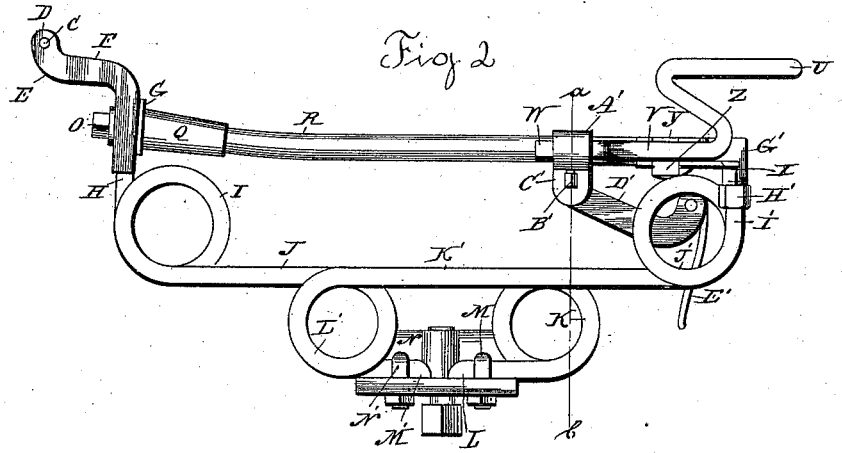


Fig. 2



Witnesses:
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Atty

(No Model.) 2 Sheets—Sheet 2.

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Fig. 3.

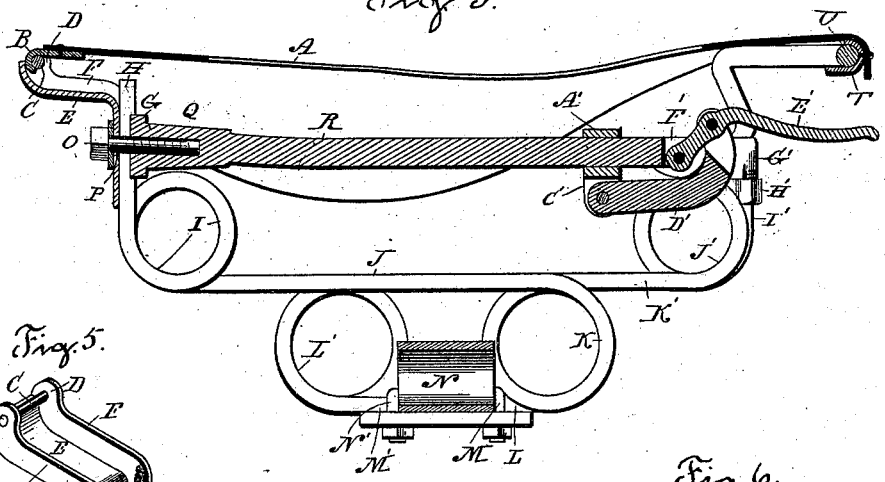


Fig. 5.

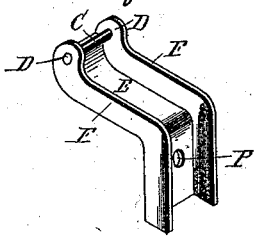
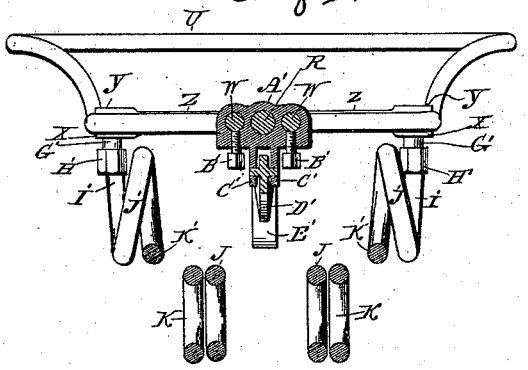


Fig. 6.

Fig. 4.



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UNITED STATES PATENT OFFICE.

LEON BOUDREAU, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE OVERMAN WHEEL COMPANY, OF SAME PLACE.

VELOCIPEDE-SADDLE.

SPECIFICATION forming part of Letters Patent No. 385,403, dated July 3, 1888.

Application filed January 27, 1888. Serial No. 262,136. (No model.)

To all whom it may concern:

Be it known that I, LEON BOUDREAU, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Velocipede-Saddles; and I do declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improvement in velocipede-saddles, the object being to produce a saddle adapted to have its covering readily removed and replaced, adjustable to vary the tension and position of such covering, and insuring ease and comfort to the rider.

With these ends in view my invention consists in certain details of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a plan view of my improved saddle with the covering removed. Fig. 2 is a view in side elevation of the saddle without the covering. Fig. 3 is a view of the saddle in central longitudinal section with the covering in place. Fig. 4 is a view of the saddle in transverse section on the line *a b* of Figs. 1 and 2 and looking toward the rear of the saddle. Fig. 5 is a detached view in perspective of the saddle-horn, and Fig. 6 is a detached view in front elevation of the vertical grooved-bearing.

As herein shown, the saddle-covering A is provided at its forward end with a hook, B, adapted to be engaged with a horizontal pin, C, located in lugs D D, formed at the upper end of the bent sheet-metal horn E, having flanges F F, adapted to embrace the edges of a vertical bearing, G, and to inclose the vertical upper ends, H H, of two springs, consisting of the said ends, coils I I, straight horizontal portions J J, coils K K, and ends L L, the latter being secured by staples M M to the rear end of a clip, N, by means of which the saddle is secured to the machine. The said horn and bearing are clamped to opposite faces of the ends H H of the springs by means of a bolt, O, passing through an opening, P, in the horn, between the said spring ends, and through the bearing G into a head, Q, carrying the same and located at the forward end of a bar, R, the forward face of the bearing being provided with two vertical grooves, S S, receiving the respective spring ends, preventing their displacement, and increasing the grip of the bearing upon them. It will readily be seen that by loosening the bolt the horn, bearing, and head may be raised and lowered, as desired, and gripped again upon the spring ends at any elevation by simply tightening the bolt, whereby the elevation of the horn, and hence the forward end of the saddle, may be changed, according as circumstances may dictate.

The rear end of the covering is provided with a curved and folded plate, T, re-enforcing it and adapting it to be engaged with and disengaged from the curved portion U of a bowed wire frame having also straight portions V V and parallel ends W W. The said portions V V of the frame are located between bearings X X, upon which they are supported, and retaining-lugs Y Y, which hold them in place upon the said bearings, such bearings and lugs being formed upon the opposite ends of a cross-piece, Z, located at the rear end of the bar R. The said parallel ends W W of the frame are adjustably secured in the opposite ends of a movable head, A′, mounted on the bar R and carrying two tap-bolts, B′ B′, engaging with the respective ends and holding them in place. The said movable head is provided upon its lower face with two lugs, C′ C′, between which is pivoted a link, D′, curving upward at its rear end and pivoted to a hand-lever, E′, fulcrumed in a slot, F′, formed in the rear face and midway the length of the cross-piece aforesaid. By throwing the lever downward and forward the movable head is moved forward on the bar R, carrying with it the bowed frame, which rides on the bearings X X of the cross-piece. The horn and bowed frame being thus brought nearer together than they are normally, the covering is readily hooked over them. Then the lever is pulled back and lifted up, with the effect of retracting the movable head and the bowed frame, whereby the covering is put under tension. In lifting the lever, as described, its pivotal connection with the curved link is raised above the line on which the strain is exerted, so that the more tension is placed

upon the covering the more securely will the link and lever be held in place. To remove the covering, the lever is thrown down and forward, whereby the bowed frame is also thrown forward and tension removed from the saddle-covering, which is then easily taken off. To compensate for stretching in the covering, the tap-bolts B′ B′ are loosened and the ends W W moved back in the head, whereby the distance between the horn and the bowed frame is increased. The said cross-piece is provided at its opposite ends with split exteriorly-threaded sockets G′ G′, opening downward, carrying nuts H′ H′, respectively, receiving the vertical upper ends, I′ I′, of two springs consisting of the said ends, coils J′ J′, straight portions K′ K′, coils L′ L′, and horizontal ends M′ M′, the latter being secured by staples N′ N′ to the forward end of the clip M, the ends L′ L′ of the springs being secured in their sockets by the clamping of the same upon them through the action of the nuts.

It will be noted that the straight horizontal portions of the springs pass each other, the portions J J being located between the portions K′ K′. This arrangement secures compactness, obtains a good poise or hang for the saddle, and enables the length of the springs, and hence their elasticity, to be increased.

I would have it understood that I do not limit myself to the exact construction herein shown and described, but hold myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of my invention.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A velocipede-saddle having a covering, spring-support for the forward end thereof, and a horn made vertically adjustable upon such support, substantially as set forth.

2. A velocipede saddle having a covering, spring-support for the forward end thereof, and a bent and flanged horn, such support and horn being secured together for vertical adjustment between them, substantially as set forth.

3. A velocipede-saddle having a covering, spring-support for the forward end thereof, a horn, and a bar, the horn and bar being clamped to the spring-support, upon which they are vertically adjusted, substantially as set forth.

4. A velocipede-saddle having a covering, a spring-support for the forward end thereof, a born, a bar provided at its forward end with a head, and a bolt passing through the horn and into such head and clamping them to the spring-support, which is located between them, substantially as set forth.

5. A velocipede-saddle having a covering, two spring ends, a horn, a bar having a head provided with two vertical grooves, and a bolt clamping the horn and head upon the spring ends, which enter the grooves of the head, substantially as set forth.

6. A velocipede-saddle having a covering, a rear spring-support, and a horizontally-movable frame mounted upon such support, adapted to have the rear end of the covering removably connected with it, and made of wire bowed and bent downward at the ends for mounting upon the said spring-support, substantially as set forth.

7. A velocipede-saddle having a covering, a movable frame with which the rear end of the covering is connected, a support for such frame, and a hand-lever connecting the support and frame for shifting the latter, so as to slack the covering for its removal and put it under tension for use, substantially as set forth.

8. A velocipede-saddle having a covering, a bar having a cross-piece at its rear end, a bowed frame having movable bearing in the ends of such cross-piece, a head movably mounted on the bar and having the frame connected with it, and a lever connected with the head and bar for operating the frame, substantially as set forth.

9. A velocipede-saddle having a cross-piece located at its rear end and provided with split sockets opening downward and carrying nuts, and spring ends entering such sockets and secured in place by the said nuts, substantially as set forth.

10. A velocipede-saddle having two forward and two rear coiled springs, the lower ends of such springs being arranged to pass each other, substantially as set forth.

11. A velocipede-saddle having a forward spring-support, a horn, a horizontal bar having a head at its forward end, such head and horn being clamped to opposite faces of the said spring-support, a cross-piece located at the rear end of such bar, a bowed frame horizontally movable upon the said cross-piece, a rear spring-support for the cross-piece, and a hand-lever for operating the said frame, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

LEON BOUDREAU.

Witnesses:
C. R. OVERMAN,
M. E. TYLER.